

- 1 1. A substantially pure polypeptide comprising an amino acid sequence at least 99%
2 identical to the amino acid sequence of SEQ ID NO:2.
- 1 2. A substantially pure polypeptide comprising the amino acid sequence of SEQ ID
2 NO:2.
- 1 3. A substantially pure polypeptide comprising the amino acid sequence of SEQ ID
2 NO:2, with up to 4 conservative amino acid substitutions.
- 1 4. An isolated nucleic acid encoding the polypeptide of claim 1.
- 1 5. An isolated nucleic acid encoding the polypeptide of claim 2.
- 1 6. An isolated nucleic acid encoding the polypeptide of claim 3.
- 1 7. An isolated nucleic acid comprising SEQ ID NO:1.
- 1 8. A vector comprising the nucleic acid of claim 4.
- 1 9. A vector comprising the nucleic acid of claim 5.
- 1 10. A vector comprising the nucleic acid of claim 6.
- 1 11. A vector comprising the nucleic acid of claim 7.
- 1 12. A cultured host cell comprising the nucleic acid of claim 4.
- 1 13. A cultured host cell comprising the nucleic acid of claim 5.
- 1 14. A cultured host cell comprising the nucleic acid of claim 6.

1 15. A cultured host cell comprising the nucleic acid of claim 7.

1 16. A method of producing a polypeptide, the method comprising culturing the
2 cultured host cell of claim 12 in a culture, expressing the polypeptide in the cultured host
3 cell, and isolating the polypeptide from the culture.

1 17. A method of detecting exposure of a fish to nervous necrosis virus, the method
2 comprising
3 providing a serum sample from a fish;
4 contacting the serum sample to a substrate coated with the polypeptide of claim 1;
5 and
6 determining whether antibodies in the serum sample specifically bind to the
7 polypeptide on the substrate, wherein antibodies specifically binding to the polypeptide on
8 the substrate indicates that the fish has been exposed to the nervous necrosis virus.

1 18. A method of eliciting an antibody response to a nervous necrosis virus in an
2 animal, the method comprising administering to an animal the polypeptide of claim 1 in an
3 amount sufficient to elicit an antibody response to the nervous necrosis virus.

1 19. A method of eliciting an antibody response to a nervous necrosis virus in an
2 animal, the method comprising administering to an animal a nucleic acid encoding the
3 polypeptide of claim 1 in an amount sufficient to elicit an antibody response to the nervous
4 necrosis virus.